

SAT Report

PMN Number: **P-11-0110**

SAT Date: **12/21/2010**

Print Date: **8/19/2014**

Related cases:

Concern levels:

Type of Concern:	<u>Health</u>	<u>Eco</u>	<u>Comments</u>
Level of Concern:	2	3	Health: ; Eco: High for Fish ChV only

<u>Persistence</u>	<u>Bioaccum</u>	<u>Toxicity</u>	<u>Comments</u>
1	1	1	
		Awaiting	
		Human Health	
		Entry	
		Awaiting	
		Human Health	
		Entry	
		Awaiting	
		Human Health	
		Entry	

Exposure Based Review:

Health: No

Ecotox: Yes Exposure based testing (eco): WS, then Fish Chronic only

Routes of exposure:

Health: Dermal Inhalation

Ecotox: All releases to water

Fate: ;

Keywords:

Keywords:

Summary of Assessment:

Fate:

Fate Summary: P-11-0110 = T-11-0004

FATE: Estimations for neutralized cation MW 369

log Kow = 7.35 (E)

log Koc = 5.36 (E)

log Fish BCF = 3.36 (E)

log Fish BAF = 1.65 (E)



POTW removal (%) = 90 via sorption and biodeg

Time for complete ultimate aerobic biodeg = wk-mo

Sorption to soils/sediments = v.strong

PBT Potential: P1B1

*CEB FATE: Migration to ground water = negl

Health:

Health Summary: Absorption is nil through the skin, poor through the GI tract, and moderate through the lungs based on analogs. There is concern for irritation to all exposed tissues based on the [REDACTED] moiety. There is also concern for lung effects if respirable [REDACTED] are inhaled based on interference with the natural surfactants in the lungs. Moderate concern.

Ecotox:

Test Organism	Test Type	Test End Point	Predicted	Measured	Comments
fish	96-h	LC50	*		
daphnid	48-h	LC50	*		
green algal	96-h	EC50	*		
fish	—	chronic value	0.0006		OR *
daphnid	—	chronic value	*		
algal	—	chronic value	*		
Sewage Sludge	3-h	EC50	—		
Sewage Sludge	—	Chronic Value	—		

Ecotox Values Comments: High for Fish ChV only - all other values are NES

Factors	Values	Comments
Assessment Factor	10	
Concentration of Concern (ppb)	1	
SARs	[REDACTED]	
SAR Class	[REDACTED]	
Ecotox Category		

Ecotox Factors Comments:

SAT Chair: Becky Jones

Focus Report
New Chemicals Program
PMN Number: **P-11-0110**

Focus Date: 01/06/2011 12:00:00 AM Report Status: Completed
Consolidated Set:
Focus Chair: Kristan Markey Contractor: Christina Stanley

I. Notice Information

Submitter: Nalco Company CAS Number: None
Chemical Name:
Use:

No references were found for this material. Analogs

Other Uses: None found.

PV-Max:

Manufacture:

X

Import:

II. SAT Results

(1) Health Rating: 2 Eco Rating: 3 Comments: ;High for Fish ChV only

Occupational: 1B

Non-Occupational:

Environmental: NR

(1) PBT: 1 1 1 Comments:

III. OTHER FACTORS

Categories:

Health Chemical Category:

Ecotox Category: aliphatic amines and amides

Related Cases/Regulatory History:

Health related Cases:

Ecotox Related Cases:

Regulatory History:

MSDS/Label Information:

MSDS: Yes

Label: No

General Equipment: General ventilation recommended. Use of chemical resistant apron, chemical splash goggles and impervious gloves and boots are recommended.

Respirator: Use of an air-supplied breathing apparatus is recommended when air concentrations may exceed exposure limits.

Health Effects: May cause eye and skin irritation with prolonged skin contact. Harmful if swallowed. Toxic by inhalation.

TLV/PEL (PMN or raw material): - Methanol - 200 ppm - TWA - ACGIH - Methanol - 250 ppm - STEL - ACGIH - Methanol - 200 ppm - PEL - OSHA Z1

Exposure Based Information:

Exposure Based Review: Y

Exposure Based Review (Health): N

Exposure Based Review (Eco): Y

Exposure Based (Occupational): No

Exposure Based Review
(Non Occupational):

Exposure Based (Environmental):

IV. Summary of SAT Assessment

Fate:

Fate Summary:

P-11-0110

FATE:

log Kow = 7.35 (E)

log Koc = 5.36 (E)

log Fish BCF = 3.36 (E)
log Fish BAF = 1.65 (E)
PMN Substance: [REDACTED]
S = [REDACTED]
VP < [REDACTED]
BP > [REDACTED]
[REDACTED]
POTW removal (%) = 90 via sorption and biodeg
Time for complete ultimate aerobic biodeg = wk-mo
Sorption to soils/sediments = v.strong
PBT Potential: P1B1
*CEB FATE: Migration to ground water = negl

Health:

Health Summary:

Absorption is nil through the skin, poor through the GI tract, and moderate through the lungs based on analogs. There is concern for irritation to all exposed tissues based on the amine moiety. There is also concern for lung effects if respirable [REDACTED] are inhaled based on interference with the natural surfactants in the lungs. Moderate concern.

Ecotox:

Ecotox Values:

Fish 96-h LC50:	*(P)
Daphnid 48-h LC50:	*(P)
Green algal 96-h EC50:	*(P)
Fish Chronic Value:	0.0006(P)
Daphnid ChV:	*(P)
Algal ChV:	*(P)

Ecotox values comments: Predictions are based on SARs for aliphatic amines and amides; SAR chemical class = amide, aliphatic amine; > [REDACTED] log Kow = 7.84 (EPI); [REDACTED] pH7; effective concentrations based on 100% active ingredients and mean measured concentrations; hardness <150.0 mg/L as CaCO3; and TOC <2.0 mg/L;

Ecotox Factors:

Assessment Factor:	10
Concern Concentration:	1

V. Summary of Exposures/Releases

Engineering Summary: P-11-0110

Exposures/Releases	Exposure	Exposure	Exposure
Scenario	Manufacturing	Processing: [REDACTED]	Use: [REDACTED]
Sites			
Media	[REDACTED]	[REDACTED]	[REDACTED]
Descriptor A	High End	High End	High End
Quantity A (kg/site/day)	[REDACTED]	[REDACTED]	[REDACTED]
Frequency A (day/year)	[REDACTED]	[REDACTED]	[REDACTED]
Descriptor B			
Quantity B (kg/site/day)			
Frequency B (day/year)			
From	[REDACTED]	[REDACTED]	[REDACTED]
Workers			
Exposure Type	[REDACTED]	[REDACTED]	[REDACTED]

VI. Focus Decision and Rationale

Regulatory Actions

Regulatory Decision: PMN Drop Non 5(e) SNUR

Decision Date: 01/06/2011

Type of Decision:

Rationale:

P-11-0110 will be dropped from further review with a NON 5(e) SNUR holding the submitter to no releases to water. Human health concerns were moderate and risks were low due to adequate PPE recommendations and warnings listed in the MSDS. Ecotoxicity concern were high, however, risks were low due to no releases to water. However, due to the high concerns result in a chronic COC of 1.0 ppb the submitter will be issued a NON 5(e) SNUR holding them to releases to water to prevent potential environmental risks. The SNUR testing will be the Fish Early Life stage toxicity test (Harmonized Test Guideline 850.1400).

Summary of Exposures and Releases

Manufacturing

[REDACTED]

Inhalation:

Dermal:

Processing:

[REDACTED]

Inhalation:

Dermal:

Use:

[REDACTED]

Inhalation:

Dermal:

P2 Rec Comments:

Testing:

Prefocus Recommended:

Eco:

WS, then Fish Chronic only

Final Recommended:

Health:

Eco:

Fate:

Other: